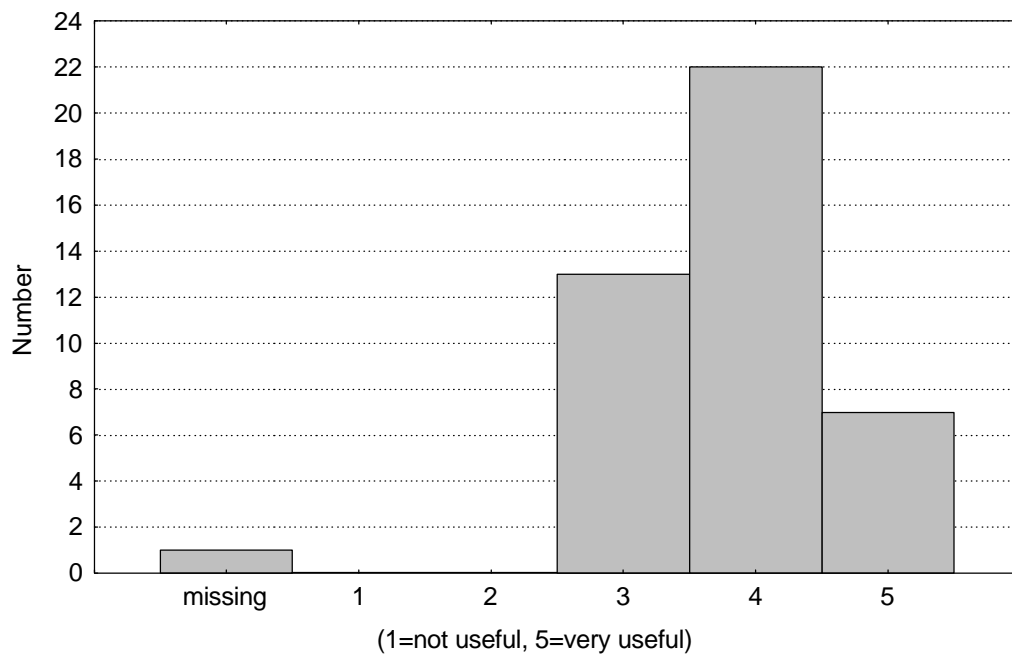


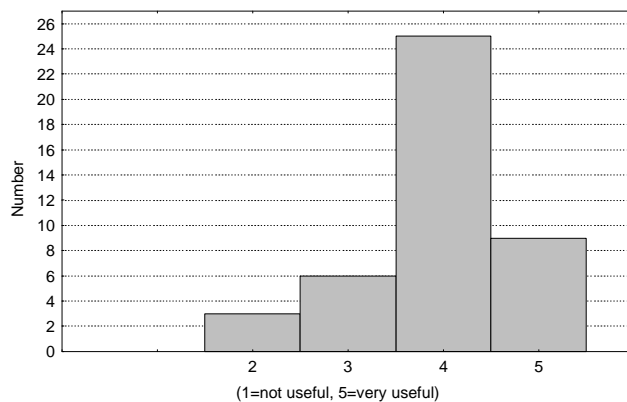
## APPENDIX B WORKSHOP EVALUATION RESULTS

An evaluation questionnaire was distributed at the workshop to help guide planning for future workshops and to provide an additional avenue for communication between the participants and the DOE staff. The results are summarized in the following bar charts. Many participants wrote informative comments on the Evaluation Questionnaire which are also summarized.

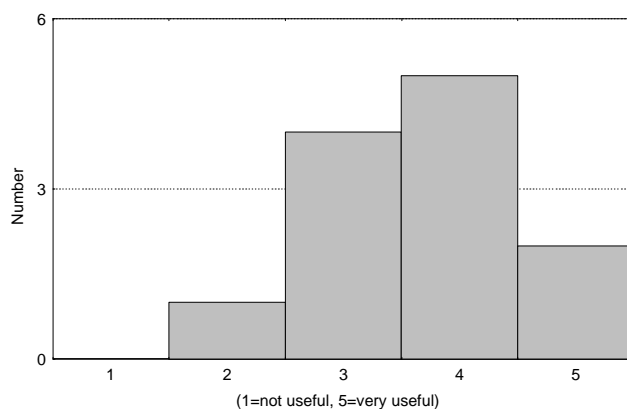


**Question 1. In general, how would you rate the usefulness of this workshop?**

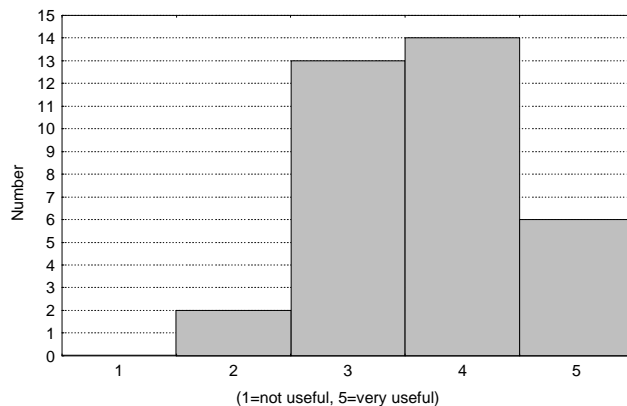
Comments: Depends on outcome.



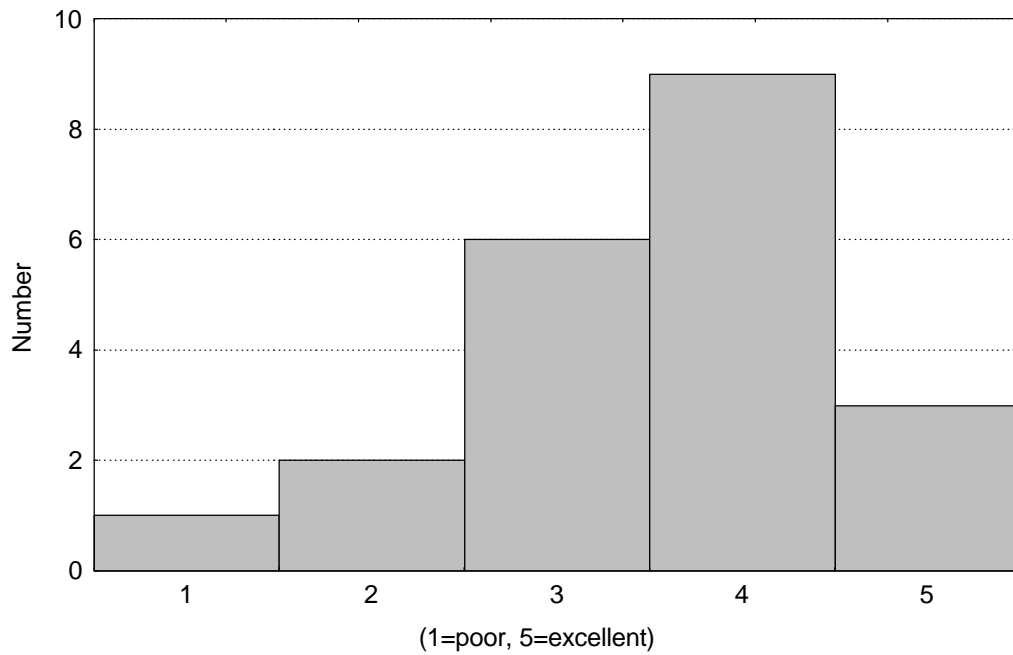
**Question 2. How useful did you find the presentations in the Tuesday morning plenary session?**



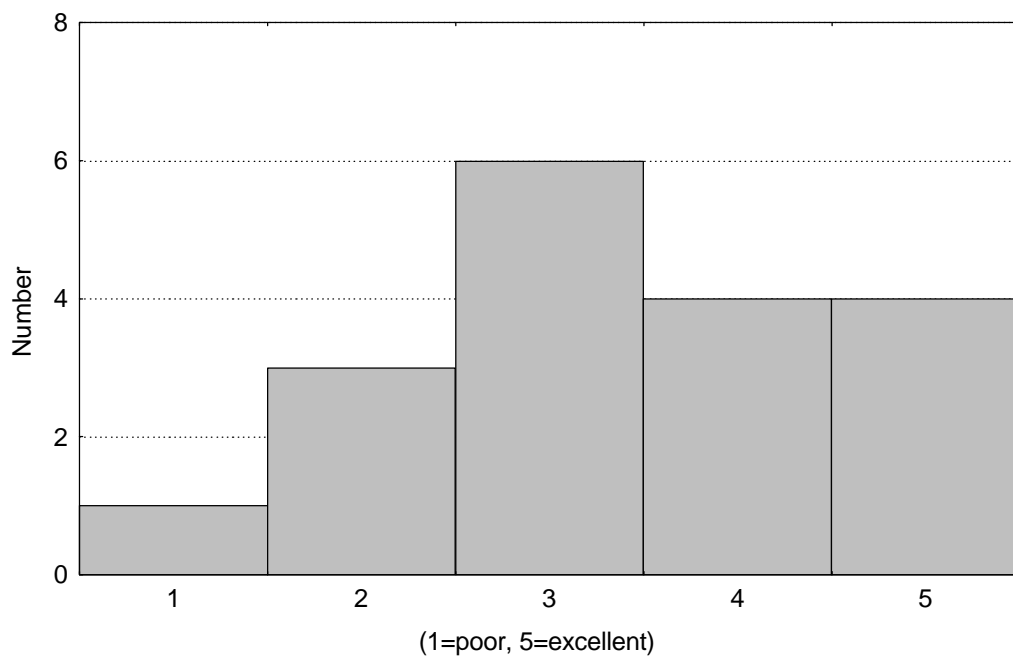
**Question 3a. If you were in Concurrent Session II-A, how useful would you rate the Chemical Focus presentations?**



**Question 3a. If you were in Concurrent Session II-B, how useful would you rate the Paper Industry Focus presentations?**



**Question 4a. If you participated in the discussion session on “Opportunities,” how would you rate it?**



**Question 4b. If you participated in the discussion session on “Technologies,” how would you rate it?**

**Question 5. Did this workshop provide you with sufficient opportunity to meet and talk informally with other participants?**

Forty-one participants answered yes, two participants answered no. However, several people offered additional comments:

Excellent reception

This is an excellent start and foundation for chemical industry road mapping workshops thanks for a super! job.

Breaks should be at least 30 minutes.

It would be helpful to provide a list of participants that preregistered as a handout at registration.

First time to meeting of this nature. Better understand my lack of industry knowledge on opportunities on the horizon.

Breaks too short. Good idea to have 1<sup>st</sup> day reception but not enough. Planning a group activity in the evening (with optional participation) would be a good thing to consider for next time.

**Question 6. What suggestions do you have for improving DOE's efforts to encourage cross-cutting RD&D in chemical, pulp and paper (and other) key industries?**

Presentations across the board included predictions of increasing electric power needs. It seems that the electric power industry should be given a "place at the table" and made a partner in planning how to accomplish these increasing power needs. Please consider EPRI, EEI, UBECA, others that may be willing generation partners.

It seems to me that a real opportunity was missed here. P&P has spent 3 years forming its needs. My understanding is that the chemical industry has also done this. The emphasis should have been taking these two prioritized lists and having meaningful discussion on cross cutting opportunities. 2/3 of the time was spent reinventing. Once the chemical industry has its pathways, a broad look at synergy and overlapping opportunities should be undertaken.

It does not look like a lot of synergy but syn gas from coal or trees would be exception. C3 and MeOH is here today.

More presentations from end users on what they need.

Move meeting to higher level - CTOs from industries.

Encourage meetings and communication opportunities for exchange of information between industry -DOE-R&D laboratories/ facilities.

We needed more chemical industry people here.

Less active participation from government agencies in discussion - let industry talk!

Make other industry road maps available to conference participants.

Possibly a joint meeting of CTOs of both groups.

Better targeting of topics and participants.

Demonstration of gasification concepts with various feeds.

Engage those involved in a particular cross-cut with industry representatives to determine value and where efforts are needed. Allow for dialog.

Further workshops of this type to encourage cooperation.

Joint research programs in common interest areas.

More technology focused discussions alternating with industry focused discussions.

Need more industry (pulp and paper) awareness and participation in workshop.

Add coal, MSW as other fuels for cofiring and gasification. This would help improve the heating value of syngas.

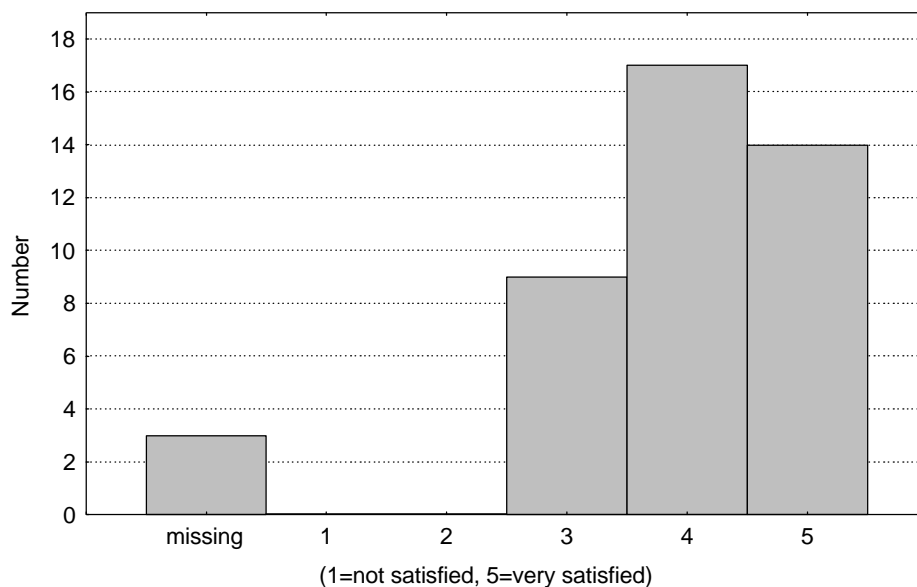
There are two parts to this - 1) definition of needs by the end users and 2) formulation of solutions by suppliers. DOE could be a broker.

DOE must cut through internal politics and pull together all agencies who have skills/ experience/ mission fit (OIT/OUT/FETC) to bring gasification to P&P.

Looks like chemical should be paired with utility rather than pulp/paper/forest.

**Question 7. What information would you like DOE to provide after the workshop?**

Copies of presentations and delegates.  
Issue complete proceedings including discussion notes.  
Names of attendees (addresses/phone#s, email).  
Summary of brainstorm.  
Summary of conclusions and actions.  
Current organization chart for OIT&OUT.  
The next steps on the subject, the actions considered and taken in the addressed groups,  
key technology issues identified that are common to the industries.  
Handouts and action plans.  
DOE & other related web sites.  
When a call for proposals related to the outcome of this meeting will occur.  
A clear view of DOE position in this area.  
Objectives, plans, priorities, What is Next?  
Updates on innovations, demonstrations, etc.  
Follow up status: what is happening with these ideas.  
Send the speeches as soon as possible, not in six months.  
Description of the current DOE funded activities.  
What will be done as a result of the meeting.  
DOE bibliographies of reports, On-Site and Energetics reports.



**Question 8. How satisfied were you with the meeting facility?**

## 9. Other comments/suggestions:

At the beginning of the meeting, we need to know what the “product” is or want it to be, and who will use it. Where do we expect to go from here if the meeting is deemed “successful”.

Need qualified facilitators to encourage new ideas rather than being overly concerned with pre-set agenda and time schedule.

The break out sessions were disappointing. Not really focused and disjointed. If Pulp & Paper has already gone through this exercise (Agenda 2020), we should have worked from that as a starting point or Pulp/Paper should have been separated from chemicals. (A gasification company rep).

Participants could be better prepared for breakouts if more information was provided in agenda.

The discussion session was insufficiently focused, disjointed, and not sufficiently interactive. (Opportunities)

Describe objectives more clearly in the beginning of workshop.

Good staff work - they deserve our thanks.

Suggest overview talks by industry reps, followed by full day devoted to analysis of research needs. Research categories should be near-, mid-, and long-term categories. Further, risk/benefit matrix is deficient because this is a 3-D problem: 1) financial risk, 2) technological difficulty, 3) benefit.

Separate chemical and pulp and paper sessions doesn't make sense; the main purpose should be to educate P&P folks about chemical industry issues and vice versa. I don't think this workshop served that purpose very well.

Inform people of their roles before the meeting ( I mean discussion tech assistant.)

Sessions dominated by pulp and paper industry. The chemical industry is too diverse and lacks a cohesive energy strategy, although individual plants seem to be effectively managed.

The breakout sessions covered material that AF&PA is focusing on in the Agenda 2020 effort. Therefore it seemed very repetitious, unnecessary and frankly quite boring. If DOE's intention is to independently verify the R&D priorities identified in the chemical and pulp and paper industries' respective Vision 2020 or Agenda2020 efforts, then DOE could have used the time more effectively by not starting from ground zero. The DOE personnel were present when the Agenda 2020 Energy Performance Group met to prioritize the project proposals. DOE should have used the break out sessions to discuss the 10 project areas identified by AF&PA Energy Performance Task Group. We spent a tremendous amount of time developing the paper industry roadmaps. Denise Swink said the industry knows what we need better than government.

Deliverables for meeting were vague.

Time allotted for breadth of discussion group task didn't seem adequate.

The introductory sessions put large emphasis in C3. There are other areas such as economical use of low quality heat, ways to grow and thrive with a cap on fossil fuel use, ...

The useful and important sessions were not given sufficient time, and were split up into two days.

Need to invite more people from pulp & paper industry.

Well organized and facilitated workshop. Presentations covered the subjects adequately.

Facilities were very good. Disappointed in the industry attendance (pulp and paper) not

sure why - might be coverage or meeting announcements to paper mills could be broader.

The breakout sessions were a waste of time.

Perhaps DOE could host a seminar in which the pulp and paper industry will have one day or half a day learning about each gasification technologies and asking questions (1 ½ to 3 days).

Participants were also asked to indicate the type of organization they represented. The distribution of questionnaire respondents is shown in this figure.

